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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,031	06/12/2006	Vitali Pavlovich Zubov	P70583US0	9727
	7590 02/12/200 OLMAN PLLC	EXAMINER		
400 SEVENTH	STREET N.W.	THERKORN, ERNEST G		
	SUITE 600 WASHINGTON, DC 20004			PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			02/12/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/534,031	ZUBOV ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ernest G. Therkorn	1797				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>08 De</u>	ecember 2008.					
	action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.						
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) <u>3 and 12-23</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 4-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	• • •	, ,				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
7) Notice of Draitsperson's Patent Drawing Neview (P10-946)  3) Notice of Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)  Other:						

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Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent basis for "organic/inorganic materials." As such, the claim is considered to be indefinite. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, and 4-11 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kosaka (U.S. Patent No. 4,045,353). The claims are considered to read on Kosaka (U.S. Patent No. 4,045,353). However, if a difference exists between the claims and Kosaka (U.S. Patent No. 4,045,353), it would reside in optimizing the elements of Kosaka (U.S. Patent No. 4,045,353). It would have been obvious to optimize the elements of Kosaka (U.S. Patent No. 4,045,353) to enhance separation.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kosaka (U.S. Patent No. 4,045,353) in view of Kirkland (U.S. Patent No. 4,160,728). At best, the claim differs from Kosaka (U.S. Patent No. 4,045,353) in reciting a bimodal

distribution of pore sizes. Kirkland (U.S. Patent No. 4,160,728) (column 2, lines 17-20) discloses that use of bimodal pore sizes results in chromatographs with a wider range of linearity. It would have been obvious to use a bimodal distribution in Kosaka (U.S. Patent No. 4,045,353) because Kirkland (U.S. Patent No. 4,160,728) (column 2, lines 17-20) discloses that use of bimodal pore sizes results in chromatographs with a wider range of linearity.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kosaka (U.S. Patent No. 4,045,353) in view of Mazid (U.S. Patent No. 5,240,601). At best, the claim differs from Kosaka (U.S. Patent No. 4,045,353) in reciting specific functional groups. Mazid (U.S. Patent No. 5,240,601) (column 3, lines 49-59, column 5, lines 52-58, column 6, lines 45-50, and column 7, lines 34-44) discloses that it is desirable to functionalize fluorinated polymers with carboxyl and amino groups to allow for specific substances to be removed. It would have been obvious to use the recited specific functional groups in Kosaka (U.S. Patent No. 4,045,353) because Mazid (U.S. Patent No. 5,240,601) (column 3, lines 49-59, column 5, lines 52-58, column 6, lines 45-50, and column 7, lines 34-44) discloses that it is desirable to functionalize fluorinated polymers with carboxyl and amino groups to allow for specific substances to be removed.

Claims 1, 2, and 4-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Kapoustine (E.P. 1,020,220) or Kapustin (WO 00/41807) in view of Mazid (U.S. Patent No. 5,240,601). At best, the claims differ from either Kapoustine (E.P. 1,020,220) or Kapustin (WO 00/41807) in reciting use of functional groups. Mazid (U.S.

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Patent No. 5,240,601) (column 3, lines 49-59, column 5, lines 52-58, column 6, lines 45-50, and column 7, lines 34-44) discloses that it is desirable to functionalize fluorinated polymers with carboxyl and amino groups to allow for specific substances to be removed. It would have been obvious to use the recited specific functional groups in either Kapoustine (E.P. 1,020,220) or Kapustin (WO 00/41807) because Mazid (U.S. Patent No. 5,240,601) (column 3, lines 49-59, column 5, lines 52-58, column 6, lines 45-50, and column 7, lines 34-44) discloses that it is desirable to functionalize fluorinated polymers with carboxyl and amino groups to allow for specific substances to be removed.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over either Kapoustine (E.P. 1,020,220) or Kapustin (WO 00/41807) in view of Mazid (U.S. Patent No. 5,240,601) as applied to claims 1, 2, and 4-11 above, and further in view of Kirkland (U.S. Patent No. 4,160,728). At best, the claim differs from either Kapoustine (E.P. 1,020,220) or Kapustin (WO 00/41807) in view of Mazid (U.S. Patent No. 5,240,601) in reciting a bimodal distribution of pore sizes. Kirkland (U.S. Patent No. 4,160,728) (column 2, lines 17-20) discloses that use of bimodal pore sizes results in chromatographs with a wider range of linearity. It would have been obvious to use a bimodal distribution in either Kapoustine (E.P. 1,020,220) or Kapustin (WO 00/41807) in view of Mazid (U.S. Patent No. 5,240,601) because Kirkland (U.S. Patent No. 4,160,728) (column 2, lines 17-20) discloses that use of bimodal pore sizes results in chromatographs with a wider range of linearity.

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The remarks urge that the restriction is improper because the inventions belong to one inventive concept. However, as noted in the instant office action claim 1 is either obvious or anticipated. Accordingly, the special technical feature linking the inventions does not provide a contribution over the prior art, and no single inventive concept exists. Therefore, restriction is appropriate. Accordingly, the restriction and election of species have been reconsidered, deemed proper, and made final.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ernest G. Therkorn/
Ernest G. Therkorn
Primary Examiner
Art Unit 1797

EGT February 11, 2009